



# REPLACEMENT SHEET

U.S. Serial No. 10/019,661 Sheet 1 of 7  
Applicants: Lian-Hui ZHANG, et al.  
Attorney Docket: 2977-127

10'  
CK 10' 20' 30' 40' 50' 60'

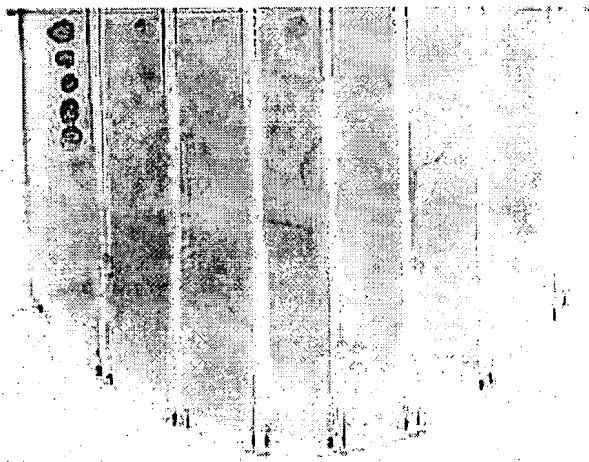


FIG. 1



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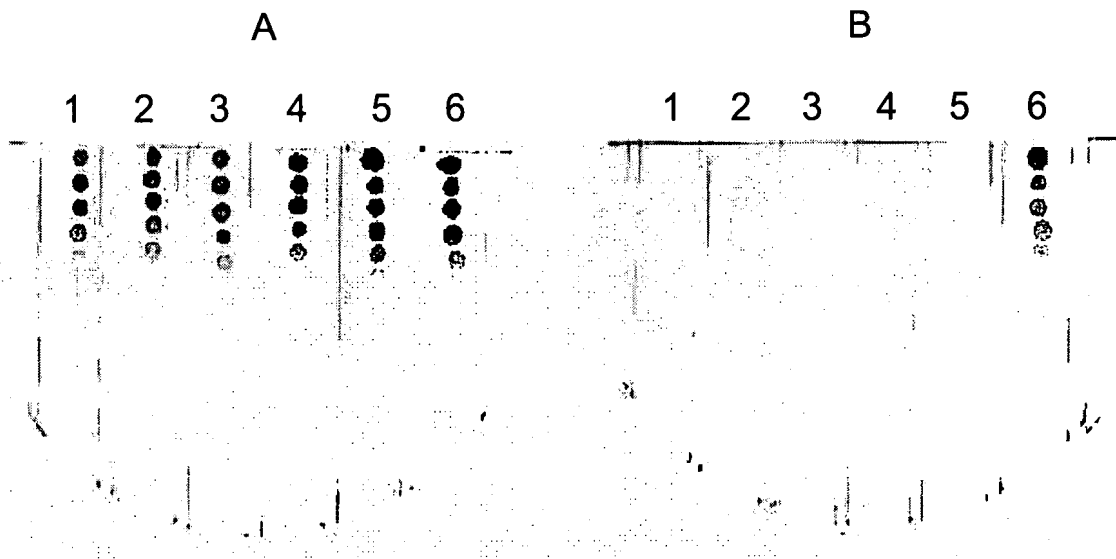


FIG.2



# REPLACEMENT SHEET

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## Clone Activity

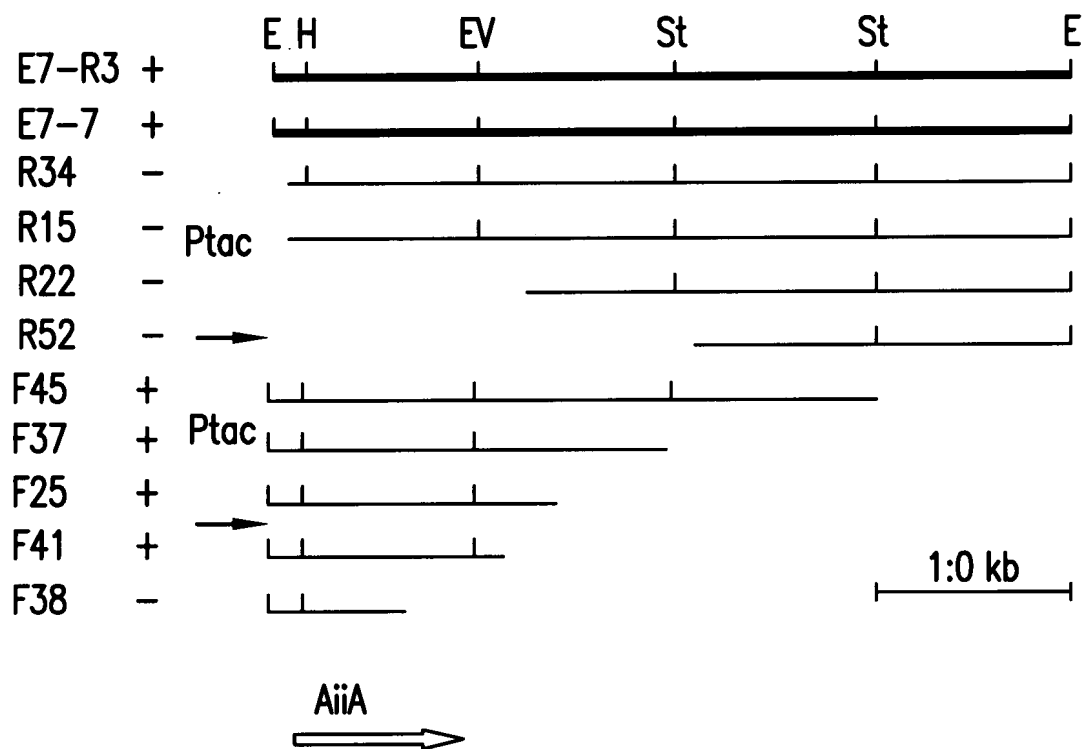


FIG.3



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..ctttactgtattgttttattcaaaaactaaatgtaaagggtggatacata -1  
ATGACAGTAAAGAAGCTTTATTTTCGTCCCAGCAGGTCGTTGTATGTTGGA 50  
TCATTCGTCTGTTAATAGTACATTAACACCAGGAGAATTATTAGACTTAC 100  
CGGTTTGGTGTATCTTTTGGAGACTGAAGAAGGACCTATTTTAGTAGAT 150  
ACAGGTATGCCAGAAAGTGCAGTTAATAATGAAGGTCTTTTAAACGGTAC 200  
ATTTGTCTGAAGGGCAGGTTTTACCGAAAATGACTGAAGAAGATAGAATCG 250  
TGAATATTTTAAAACGGGTTGGTTATGAGCCGGAAGACCTTCTTTATATT 300  
ATTAGTTCTCACTTGCATTTTGATCATGCAGGAGGAAATGGCGCTTTTAT 350  
AAATACACCAATCATTGTACAGCGTGCTGAATATGAGGCGGCGCAGCATA 450  
GCGAAGAATATTTGAAAGAATGTATATTGCCGAATTTAACTACAAAATC 500  
ATTGAAGGTGATTATGAAGTCGTACCAGGAGTTCAATTATTGCATACACC 550  
AGGCCATACTCCAGGGCATCAATCGCTATTAATTGAGACAGAAAAATCCG 600  
GTCCTGTATTATTAACGATTGATGCATCGTATACGAAAGAGAATTTTGAA 650  
AATGAAGTGCCATTTGCGGGATTTGATTGAGAATTAGCTTTATCTTCAAT 700  
TAAACGTTTAAAAGAAGTGGTGATGAAAGAGAAGCCGATTGTTTTCTTTG 750  
GACATGATATAGAGCAGGAAAGGGGATGTAAAGTGTTCCCTGAATATATA 800  
TAGtacaaaaagtcatgagcttattcgctcatgacttttttcgtttaaatg 850  
Attttttttaataagttataaaacttttttagaactatcttcatttaattg 900  
Atagtacgtaaggtttacatcattaggagtatcttggtgagcaatcatca 950  
Cttcgttactgtgatggtcaactacccatatgaaatattttttataagtc 1000  
Ccatcctcgaaagtaatccacatatcacagtctattaaatctgatccttc 1050  
Ttcatctaattgtaatttttccttttttgccggtatccatactgttaatga 1100  
Atgtttttaattcatctgtttttgtgagaaagatatccttttttggttta 1150  
Attgactcgacatgtatatctttttatttcttggttttcctaaaaagacagg 1200  
gggctcatttgggtctctttgagt 1222

FIG.4A



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MTVKKLYFVPAGRCMLDHSSVNSTLTPGELLDLPVWCYLLTEEGPILVD 50  
TGMPE SAVNNEGLFNGTFVEGQVLPKMTEEDRIVNILKRVGYEPEDLLYI 100  
ISSHLHFDHAGGNGAFINTPIIVQRAEYEAQHSSEYLKECILPNLNYKI 150  
IEGDYEVVPGVQLLHTPGHTPGHQSLLIETEKSGPVLLTIDASYTKENFE 200  
NEVPFAGFDSELALSSIKRLKEVVMKEKPIVFFGHDIEQERGCKVFPEYI 250

FIG.4B

Asp: [LIVMFGAC]-[LIVMTADN]-[LIVFSA]-D-[ST]-G-[STAV]-  
AiiA: I<sub>47</sub> L V D T G M

Asp: [STAPDENQ]-X-[LIVMFSTNC]-X-[LIVMFGTA]  
AiiA: P E S A V<sub>58</sub>

FIG.5



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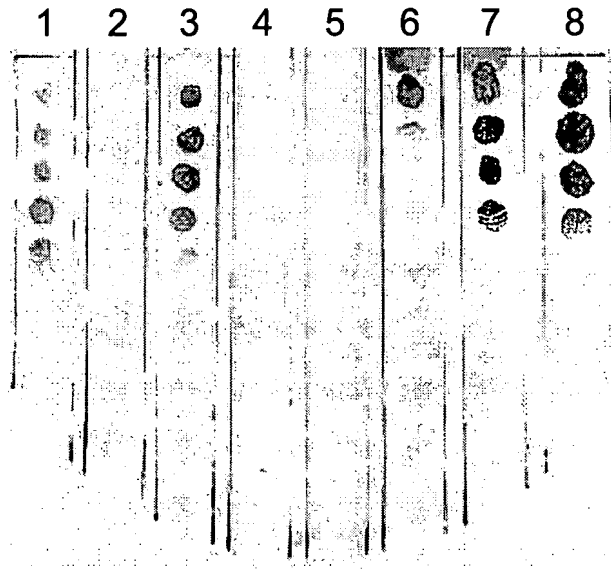


FIG. 6

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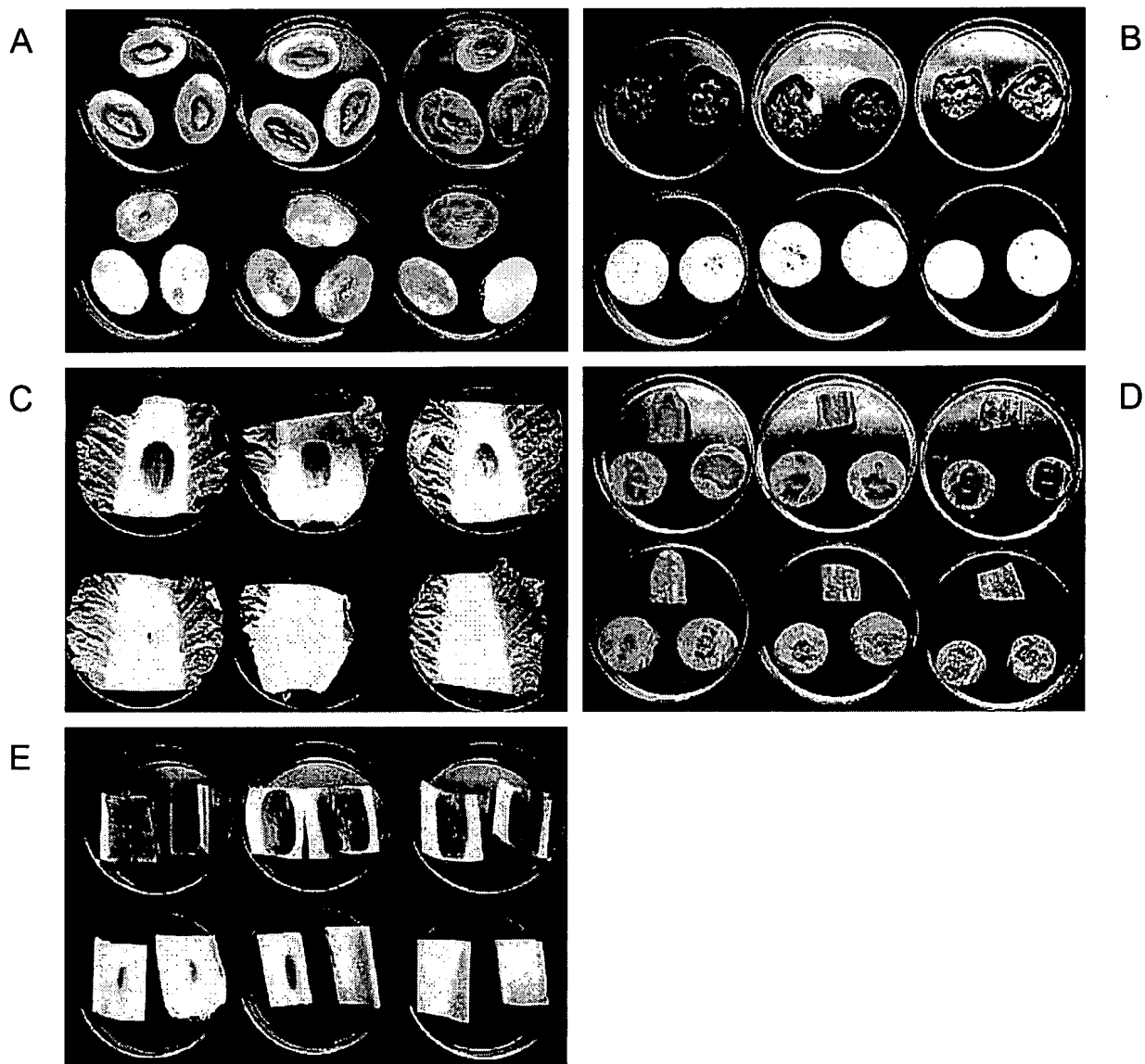


FIG.7